

1034123-000219
SEQUENCE LISTING

<110> Gallo, Richard
Murakami, Masamoto

<120> HUMAN CATHELICIDIN ANTIMICROBIAL PEPTIDES

<130> 1034123-000219

<140> Unassigned
<141> 2006-04-11

<150> US 60/512,953
<151> 2003-10-21

<150> PCT/US2004/034911
<151> 2004-10-20

<160> 34

<170> PatentIn version 3.3

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Leu Ser Tyr Lys Glu Ala Val Leu Arg Ala Ile Asp Gly Ile Asn Gln	35 40 45
Arg Ser Ser Asp Ala Asn Leu Tyr Arg Leu Leu Asp Leu Asp Pro Arg	50 55 60
Pro Thr Met Asp Gly Asp Pro Asp Thr Pro Lys Pro Val Ser Phe Thr	65 70 75 80
Val Lys Glu Thr Val Cys Pro Arg Thr Thr Gln Gln Ser Pro Glu Asp	85 90 95
Cys Asp Phe Lys Lys Asp Gly Leu Val Lys Arg Cys Met Gly Thr Val	100 105 110
Thr Leu Asn Gln Ala Arg Gly Ser Phe Asp Ile Ser Cys Asp Lys Asp	115 120 125
Asn Lys Arg Phe Ala Leu Leu Gly Asp Phe Phe Arg Lys Ser Lys Glu	130 135 140
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 Arg Asp Ala Val Leu Arg Ala Val Asp Asp Phe Asn Gln Gln Ser Leu
 35 40 45
 Asp Thr Asn Leu Tyr Arg Leu Leu Asp Leu Asp Pro Glu Pro Gln Gly
 50 55 60
 Asp Glu Asp Pro Asp Thr Pro Lys Ser Val Arg Phe Arg Val Lys Glu
 65 70 75 80
 Thr Val Cys Gly Lys Ala Glu Arg Gln Leu Pro Glu Gln Cys Ala Phe
 85 90 95
 Lys Glu Gln Gly Val Val Lys Gln Cys Met Gly Ala Val Thr Leu Asn
 100 105 110
 Pro Ala Ala Asp Ser Phe Asp Ile Ser Cys Asn Glu Pro Gly Ala Gln
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120

125

Pro Phe Arg Phe Lys Lys Ile Ser Arg Leu Ala Gly Leu Leu Arg Lys
 130 135 140

Gly Gly Glu Lys Ile Gly Glu Lys Leu Lys Lys Ile Gly Gln Lys Ile
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Ser Tyr Arg Glu Ala Val Leu Arg Ala Val Asn Gly Phe Asn Gln Arg
 35 40 45

Ser Ser Glu Glu Asn Leu Tyr Arg Leu Leu Gln Leu Asn Ser Gln Pro
 50 55 60

Lys Gly Asp Glu Asp Pro Asn Ile Pro Lys Pro Val Ser Phe Thr Val
 65 70 75 80

Lys Glu Thr Val Cys Pro Lys Thr Thr Gln Gln Pro Leu Glu Gln Cys
 85 90 95

Gly Phe Lys Asp Asn Gly Leu Val Lys Gln Cys Glu Gly Thr Val Ile
 100 105 110

Leu Asp Glu Asp Thr Gly Tyr Phe Asp Leu Asn Cys Asp Ser Ile Leu
 115 120 125

Gln Val Lys Lys Ile Asp Arg Leu Lys Glu Leu Ile Thr Thr Gly Ala
 130 135 140

Gln Lys Ile Gly Lys Lys Ile Arg Arg Ile Gly Gln Arg Ile Lys Asp
 145 150 155 160

Phe Leu Lys Asn Leu Gln Pro Arg Glu Glu Lys Ser
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170

<210> 10
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Met Glu Thr Gln Arg Ala Ser Leu Cys Leu Gly Arg Trp Ser Leu Trp
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Ser Tyr Arg Glu Ala Val Leu Arg Ala Val Asp Arg Leu Asn Glu Gln
 35 40 45

Ser Ser Glu Ala Asn Leu Tyr Arg Leu Leu Glu Leu Asp Gln Pro Pro
 50 55 60

Lys Ala Asp Glu Asp Pro Gly Thr Pro Lys Pro Val Ser Phe Thr Val
 65 70 75 80

Lys Glu Thr Val Cys Pro Arg Pro Thr Arg Gln Pro Pro Glu Leu Cys
 85 90 95

Asp Phe Lys Glu Asn Gly Arg Val Lys Gln Cys Val Gly Thr Val Thr
 100 105 110

Leu Asn Pro Ser Ile His Ser Leu Asp Ile Ser Cys Asn Glu Ile Gln
 115 120 125

Ser Val Arg Arg Arg Pro Arg Pro Pro Tyr Leu Pro Arg Pro Arg Pro
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Pro Pro Phe Phe Pro Pro Arg Leu Pro Pro Arg Ile Pro Pro Gly Phe
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Pro Pro Arg Phe Pro Pro Arg Phe Pro Gly Lys Arg
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Leu Leu Leu Leu Gly Leu Val Val Pro Leu Ala Ser Ala Gln Ala Leu
20 25 30

Ser Tyr Arg Glu Ala Val Leu Arg Ala Val Gly Gln Leu Asn Glu Arg
35 40 45

Ser Ser Glu Ala Asn Leu Tyr Arg Leu Leu Glu Leu Asp Pro Ala Pro
50 55 60

Asn Asp Glu Val Asp Pro Gly Thr Arg Lys Pro Val Ser Phe Thr Val
65 70 75 80

Lys Glu Thr Val Cys Pro Arg Thr Thr Gln Gln Pro Pro Glu Glu Cys
85 90 95

Asp Phe Lys Glu Asn Gly Leu Val Lys Gln Cys Val Gly Thr Val Thr
100 105 110

Leu Asp Pro Ser Asn Asp Gln Phe Asp Ile Asn Cys Asn Glu Leu Gln
115 120 125

Ser Val Arg Phe Arg Pro Pro Ile Arg Arg Pro Pro Ile Arg Pro Pro
130 135 140

Phe Asn Pro Pro Phe Arg Pro Pro Val Arg Pro Pro Phe Arg Pro Pro
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Lys Arg Ile Val Gln Arg Ile Lys Asp Phe Leu Arg Asn Leu Val Pro
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Arg

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Arg Thr

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Arg Thr Glu Ser
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Ile Lys Asp Phe Leu Arg Asn Leu Val Pro
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Ile Lys Asp Phe Leu Arg Asn Leu Val Pro Arg
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Lys Ser Lys Glu Lys Ile Gly Lys Glu Phe Lys Arg Ile Val Gln Arg
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Ile Lys Asp Phe Leu Arg Asn Leu Val Pro Arg Thr
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Lys Ser Lys Glu Lys Ile Gly Lys Glu Phe Lys Arg Ile Val Gln Arg
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Ile Lys Asp Phe Leu Arg Asn Leu Val Pro Arg Thr Glu
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Lys Ser Lys Glu Lys Ile Gly Lys Glu Phe Lys Arg Ile Val Gln Arg
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Ile Lys Asp Phe Leu Arg Asn Leu Val Pro Arg Thr Glu Ser
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Arg Lys Ser Lys Glu Lys Ile Gly Lys Glu Phe Lys Arg Ile Val Gln
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Arg Ile Lys Asp Phe Leu Arg Asn Leu Val Pro
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Arg Ile Lys Asp Phe Leu Arg Asn Leu Val Pro Arg
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Arg Lys Ser Lys Glu Lys Ile Gly Lys Glu Phe Lys Arg Ile Val Gln
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Arg Ile Lys Asp Phe Leu Arg Asn Leu Val Pro Arg Thr
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Arg Ile Lys Asp Phe Leu Arg Asn Leu Val Pro Arg Thr Glu
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Arg Lys Ser Lys Glu Lys Ile Gly Lys Glu Phe Lys Arg Ile Val Gln
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Arg Ile Lys Asp Phe Leu Arg Asn Leu Val Pro Arg Thr Glu Ser
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Leu Gly Asp Phe Phe Arg Lys Ser Lys Glu Lys Ile Gly Lys Glu Phe
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Lys Arg Ile Val Gln Arg Ile Lys Asp Phe Leu Arg Asn Leu Val Pro
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Arg Thr Glu Ser
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Gly Gly Gly Gly Gly Gly
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Ser Ser Leu Leu Glu
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Leu Leu Gly Asp Phe Phe Arg Lys Ser Lys Glu Lys Ile Gly Lys Glu
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Pro Arg Thr Glu Ser
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Gly Leu Gly Lys Leu Gly Lys Asp Ala Val Glu Asp Leu Glu Ser Val
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Gly Lys Gly Ala Val His Asp Val Lys Asp Val Leu Asp Ser Val
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Val Leu Arg Ala Val Asp Asn Gln Arg Ser Ser Glu Ala Asn Leu Tyr
35 40 45

Arg Leu Leu Leu Asp Pro Pro Asp Glu Asp Pro Thr Pro Lys Pro Val
50 55 60

Ser Phe Thr Val Lys Glu Thr Val Cys Pro Arg Thr Thr Gln Gln Pro
65 70 75 80

Pro Glu Cys Asp Phe Lys Glu Asn Gly Leu Val Lys Gln Cys Gly Thr
85 90 95

Val Thr Leu Asn Pro Ser Phe Asp Ile Ser Cys Asn Glu Pro Gly Gln
100 105 110

Val Arg Arg Lys Ile Gly Arg Ile Gln Arg Ile Lys Phe Leu Pro Arg
115 120 125

Arg